

**AMENDMENTS TO THE CLAIMS:**

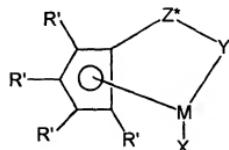
1-15. (Cancelled).

16. (New) A process for preparing copolymers of ethylene and alpha olefins having 3 to 10 carbon atoms having

- (a) a density in the range 0.900 to 0.940
- (b) an apparent  $M_w/M_n$  of 2 - 3.4
- (c)  $I_{21}/I_2$  from 16 to 24
- (d) activation energy of flow from 28 to 45 kJ/mol
- (e) a ratio  $Ea(HMW)/Ea(LMW) > 1.1$ , and
- (f) a ratio  $g'(HMW)/g'(LMW)$  from 0.85 to 0.95,

said process carried out in the presence of a catalyst system comprising

(a) a metallocene complex of the general formula



wherein:

R' each occurrence is independently selected from hydrogen, hydrocarbyl, silyl, germyl, halo, cyano, and combinations thereof, said R' having up to 20 non-hydrogen atoms, and optionally, two R' groups (where R' is not hydrogen, halo or

cyano) together form a divalent derivative thereof connected to adjacent positions of the cyclopentadienyl ring to form a fused ring structure;

X is a neutral  $\eta^4$  bonded diene group having up to 30 non-hydrogen atoms, which forms a  $\Rightarrow$  complex with M;

Y is -O-, -S-, -NR<sup>4</sup>-, -PR<sup>4</sup>-,

M is titanium or zirconium in the + 2 formal oxidation state;

Z<sup>4</sup> is SiR<sup>2</sup>, CR<sup>2</sup>, SiR<sup>2</sup>SiR<sup>2</sup>, CR<sup>2</sup>CR<sup>2</sup>, CR<sup>4</sup>=CR<sup>4</sup>, CR<sup>2</sup>SiR<sup>2</sup>, or GeR<sup>2</sup>, wherein:

R<sup>4</sup> each occurrence is independently hydrogen, or a member selected from hydrocarbyl, silyl, halogenated alkyl, halogenated aryl, and combinations thereof, said R<sup>4</sup> having up to 10 non-hydrogen atoms, and optionally, two R<sup>4</sup> groups from Z<sup>4</sup> (when R<sup>4</sup> is not hydrogen), or an R<sup>4</sup> group from Z<sup>4</sup> and an R<sup>4</sup> group from Y form a ring system,

(b) a borate, and

(c) a support.

17. (New) The process of claim 16 wherein the metallocene complex is a titanium complex.

18. (New) The process of claim 17 wherein the metallocene complex is (t-butylamido) (tetramethyl- $\eta^5$  - cyclopentadienyl) dimethyl silanetitanium- $\eta^4$  -1,3-pentadiene.

19. (New) The process of claim 16 wherein the borate comprises the reaction product of (A) an ionic compound comprising a cation and an anion wherein the anion

has at least one substituent comprising a moiety having an active hydrogen and (B) an organometal or metalloid compound wherein the metal or metalloid is from Groups 1-14 of the Periodic Table.

20. (New) The process of claim 16 wherein the support is silica.
21. (New) The process of claim 16 wherein the alpha olefin is 1-hexene.
22. (New) The process of claim 16 wherein the process is carried out continuously in the gas phase.